

Model : DKA30B-15 30W DC-DC Dual Output Converter
 V1 : +15V / 100~1000mA
 V2 : -15V / 100~1000mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OUTPUT VOLTAGE ACCURACY	V1:-2%~+2% (Max) V2:-2%~+2% (Max)	I/P: 24VDC O/P:50% LOAD Ta:25°C	V1:-0.8% V2:-0.7%	P
2	RIPPLE & NOISE	V1:100mVp-p (Max) V2:100mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	V1:30mVp-p V2:35mVp-p	P
3	LINE REGULATION	V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max)	I/P:18VDC ~36VDC O/P:FULL LOAD Ta:25°C	V1: -0.1%~+0.1% V2: -0.1%~+0.1%	P
4	LOAD REGULATION	V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max)	I/P:24VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.1%~+0% V2: -0%~+0.1%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18VDC~36VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	12.5V~36Vdc	P
2	EFFICIENCY	83% (TYP)	I/P:24VDC O/P:FULL LOAD Ta:25°C	87.6%	P
3	INPUT CURRENT	1.5A FULL LOAD (Typ.) 20mA NO LOAD (Typ.)	I/P:24VDC O/P:TEST Ta:25°C	1.415A / FULL LOAD 27.3mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	110%~250%	I/P:24VDC O/P:TESTING Ta:25°C	137% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:36VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P



CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	Power on >4.5~5.5V (typ) or open Power off <1.2V (typ) or short	I/P:24VDC O/P:FULL LOAD Ta:25°C	Power on>3.6Vdc Power off<3.3Vdc	P
2	TRIM	+10%~-10%(Typ)	Trim ~ +Vout Trim DOWN Trim ~ -Vout Trim UP Using 500k ohm VR	Trim DOWN -53% Trim UP +11%	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT						
1	TEMPERATURE RISE TEST	MODEL : 1. ROOM AMBIENT BURN-IN : 6HRS I/P:24VDC O/P: FULL LOAD Ta= 25°C			P						
			<table border="1"> <thead> <tr> <th>Position</th> <th>P/N</th> <th>TEMP Ta=25°C</th> </tr> </thead> <tbody> <tr> <td>FRONT</td> <td>CENTER</td> <td>50.0°C</td> </tr> </tbody> </table>	Position	P/N	TEMP Ta=25°C	FRONT	CENTER	50.0°C		
Position	P/N	TEMP Ta=25°C									
FRONT	CENTER	50.0°C									

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1000 VDC/min	I/P-O/P:1000 VDC/min Ta:25°C	I/P-O/P: 0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500 VDC Ta:25°C	I/P-O/P>100MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.3.29	DKA30B-15	PASS	PETER CHENG	MAX LIN